

Service Manual

ORDER NO.
RRV1628

STEREO AMPLIFIER

A-P6500

- This product is a component of a system.
Refer to the service manual RRV1627 for XS-P6500.
- This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.
- XS-P6500 is a combination of the following components.

STEREO AMPLIFIER	: A-P6500
STEREO TUNER	: F-P5500RDS
COMPACT DISC PLAYER	: PD-P5500
STEREO DOUBLE CASSETTE DECK	: CT-P5500WR

Service Manual

ORDER NO.
RRV1627

SEPARATE MINI COMPONENT SYSTEM

XS-P6500

● Refer to the service manual **RRV1525** for **XS-P5500**.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	XS-P6500		
MYIXK	○	AC220-230V	
MYXK/EA	○	AC220-230V	
MYXK/EB	○	AC220-230V	
NVXK	○	AC230V	

● **XS-P6500 is a combination of the following components.**

STEREO AMPLIFIER : **A-P6500**

STEREO TUNER : **F-P5500RDS**

COMPACT DISC PLAYER : **PD-P5500**

STEREO DOUBLE CASSETTE DECK : **CT-P5500WR**

● **This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.**

● **This product is a component of a system.**

For the system composition STEREO TUNER: F-P5500, COMPACT DISC PLAYER: PD-P5500 and STEREO DOUBLE CASSETTE DECK : CT-P5500WR etc., refer to the service manual **RRV1525 for **XS-P5500**.**

● **This manual is applicable to STEREO AMPLIFIER: A-P6500.**

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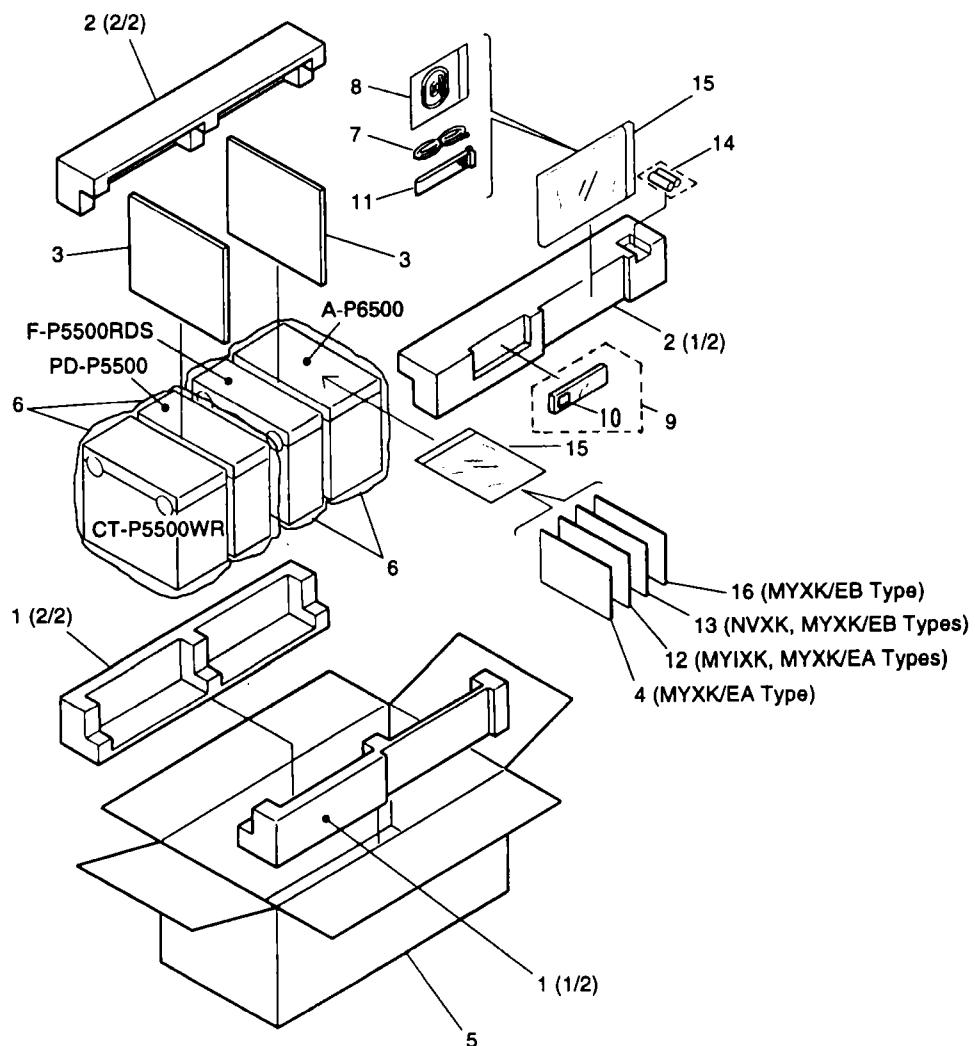
1. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

1.1 PACKING

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
1	PAD B		RHA1190	11	CONTROL CODE		RDE1041
2	PAD T		RHA1191	12	OPERATING INSTRUCTIONS	(German/Italian)	RRD1179
3	SPACER		RHG1713			(MYIXK, MYXK/EA types)	
4	OPERATING INSTRUCTIONS (French/Dutch) (MYXK/EA type)		RRD1180	13	OPERATING INSTRUCTIONS	(English) (NVXK, MYXK/EB types)	RRB1171
5	MASTER CARTON		RHG1743	NSP	14	BATTERY (R03, AAA)	VEM-022
6	SEAT (550x550x0.5)	Z23-026		15	POLYETHYLENE BAG	(0.03x230x340)	Z21-038
7	FM ANTENNA ASSY	ADH1019		16	OPERATING INSTRUCTIONS	(French/Swedish/Spanish/Portuguese)	RRD1181
8	LOOP ANTENNA	ATB7002				(MYXK/EB type)	
9	REMOTE CONTROL UNIT	RPX1085					
10	BATTERY COVER	AZA7050					

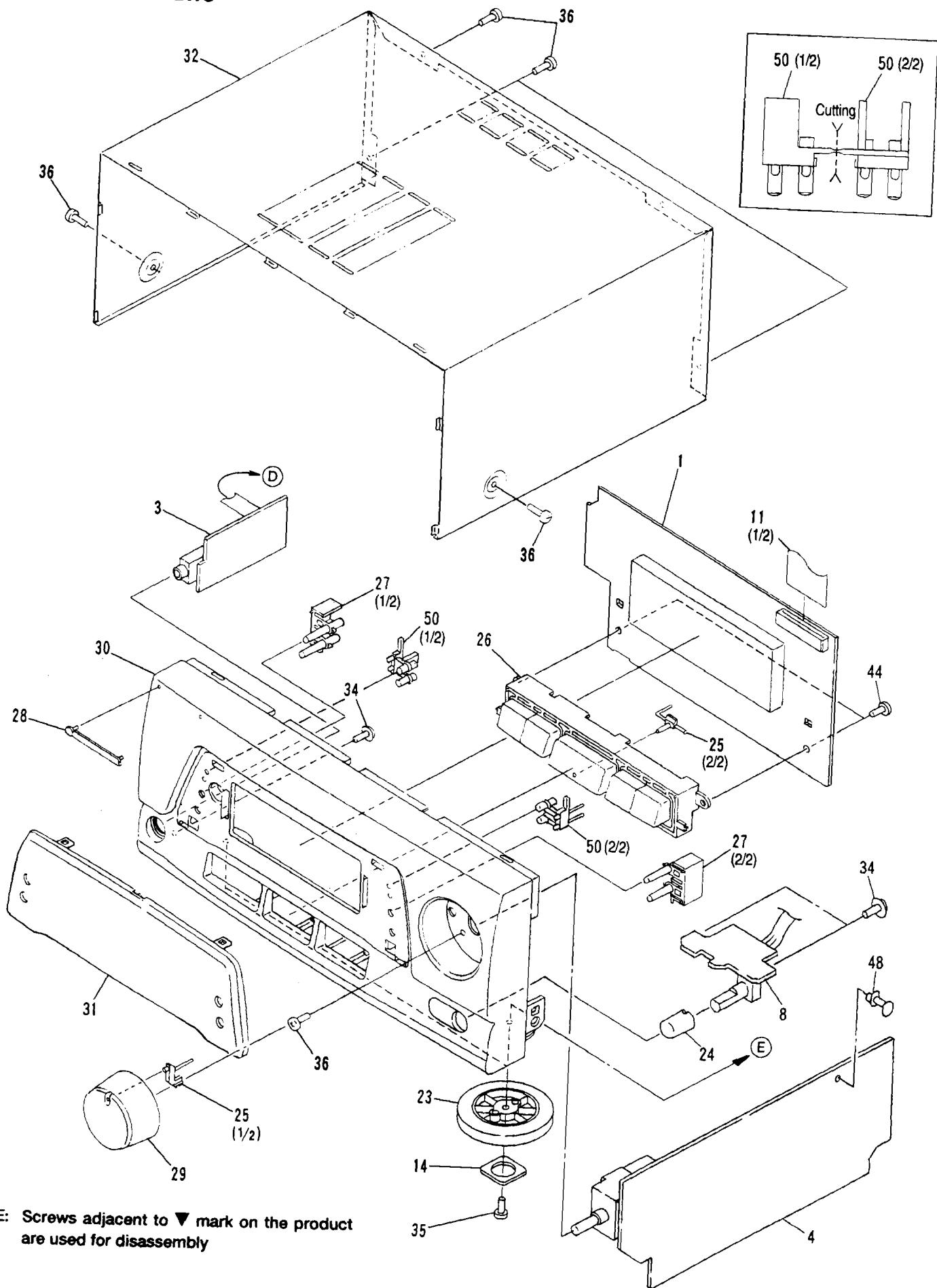


1.2 STEREO AMPLIFIER (A-P6500)

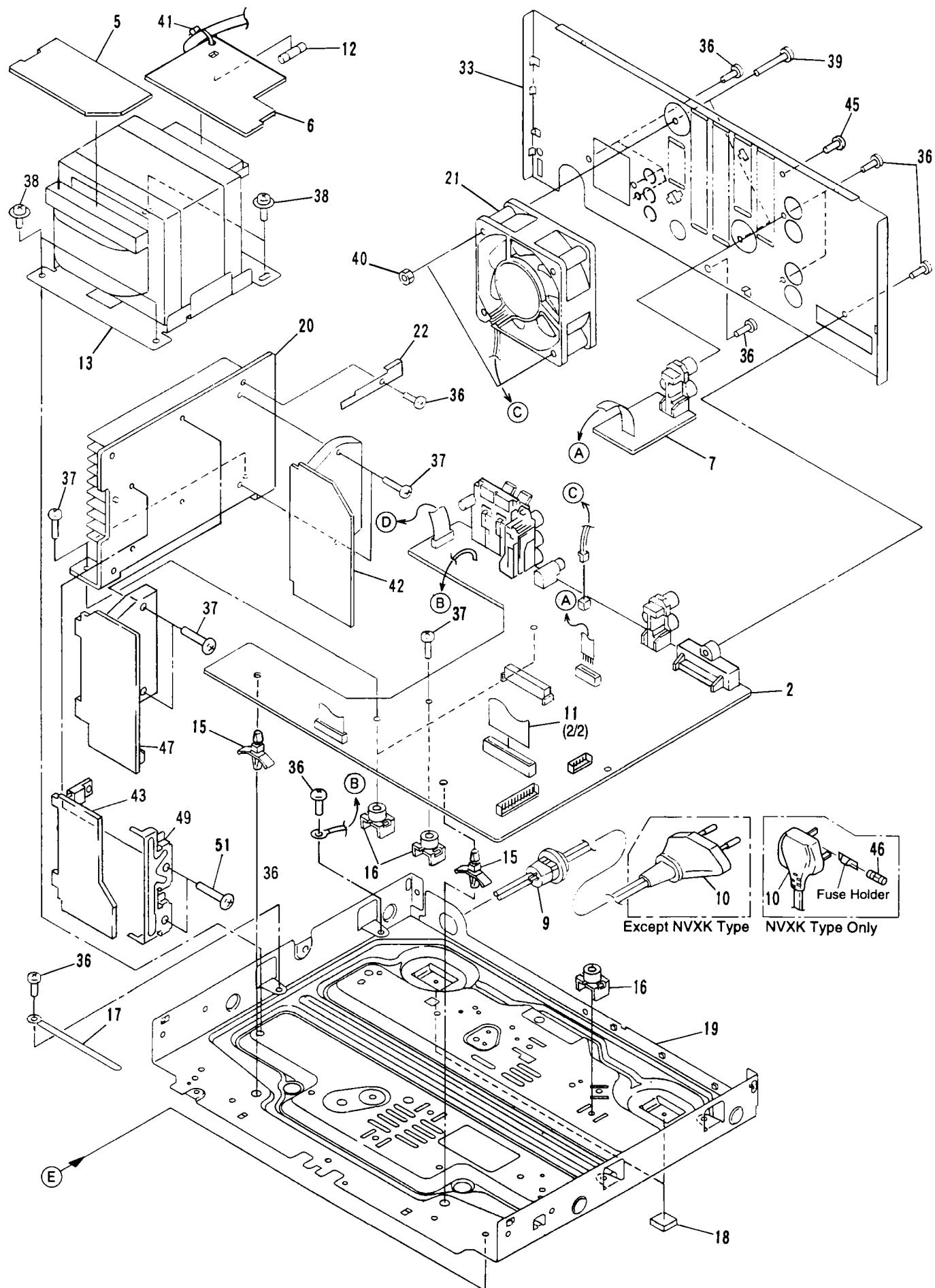
■ PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	DISPLAY ASSY	RWZ3882	NSP	41	BINDER	ZCA-SKB90BK
	2	MAIN ASSY	RWZ3920		42	POWER AMP ASSY	RWZ3879
	3	H. P. ASSY	RWZ3926		43	REG. ASSY	RWZ3923
	4	VR DOL. PROLOG. ASSY	RWZ3921		44	SCREW	BPZ30P080FMC
	5	CONNECT ASSY	RWZ3924		45	SCREW	BSZ30P080FZK
NSP	6	AC. CONNECT ASSY	RWZ3925	△	46	FUSE (T5A) (NVXK type only)	REK1003
NSP	7	REC. OUT ASSY	RWZ3883		47	REAR POWER AMP ASSY	RWZ3922
	8	BAL. VR ASSY	RWZ3927	NSP	48	MINI CARD SPACER	REC1278
	9	STRAIN RELIEF	CM-22B	NSP	49	HOLDER	RNE1856
△	10	AC POWER CORD (Except NVXK type)	ADG1138		50	LOGIC LENS	RNK2193
△	10	AC POWER CORD (NVXK type)	PDG1055		51	SCREW	VBZ30P120FZK
△	11	28P F-F-C/30V	RDD1358				
△	12	FUSE (T1.25A, FU2001)	AEK1055				
△	13	POWER TRANSFORMER (T1)	RTT1315				
NSP	14	FOOT SPACER	REB1296				
NSP	15	PC SUPPORT	VEC1549				
NSP	16	PCB MOLD	AMR2115				
NSP	17	CORD STOPPER	DNF1128				
	18	CUSHION B	REB1282				
NSP	19	UNDER BASE	RNB1115				
NSP	20	HEAT SINK	RNE1862				
	21	DC FAN MOTOR	AXM7003				
	22	SPRING	RBK1071				
	23	INSULATOR ASSY	VXA1881				
	24	MIC VOLUME KNOB	AAB7045				
	25	STA. LENS	AAK7118				
	26	BUTTON AM	RAC2111				
	27	TIMER BUTTON	RAC2107				
	28	NAME PLATE	PAM1407				
	29	VR KNOB	RNK2160				
	30	PANEL AM	RAH2701				
	31	D. PANEL AM	RAH2711				
	32	BONNET	REA1181				
	33	REAR BASE (Except NVXK type)	RNA2074				
	33	REAR BASE (NVXK type)	RNA2081				
	34	SCREW (WITH WASHER)	ABA1005				
	35	SCREW	BBZ30P100FCC				
	36	SCREW	BBZ30P080FZK				
	37	SCREW	BBZ30P160FMC				
	38	SCREW	ASZ40P060FMC				
	39	SCREW	BMZ40P300FZK				
	40	NUT	NB40FMC				

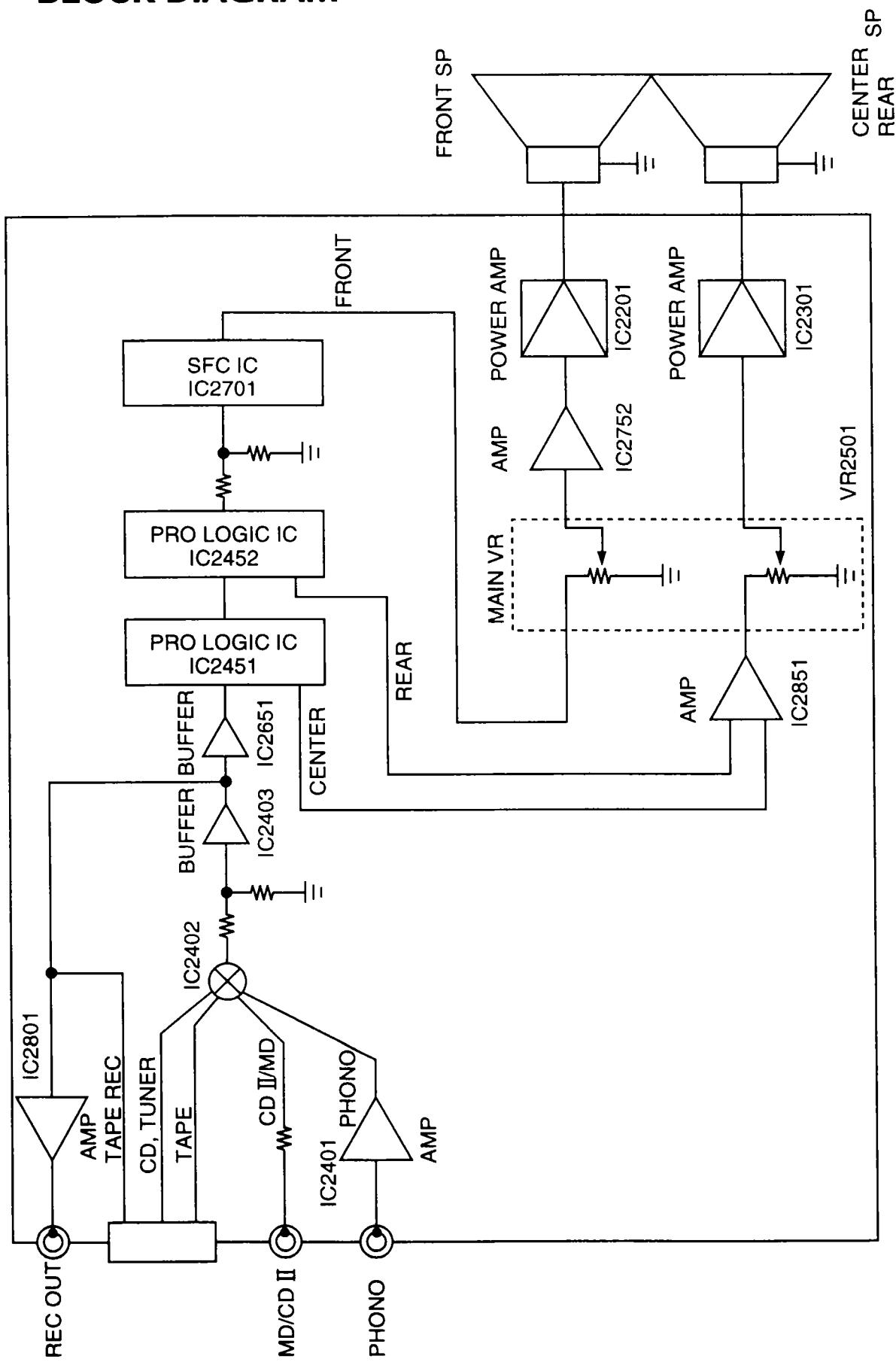
■ EXPLODED VIEWS



NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.



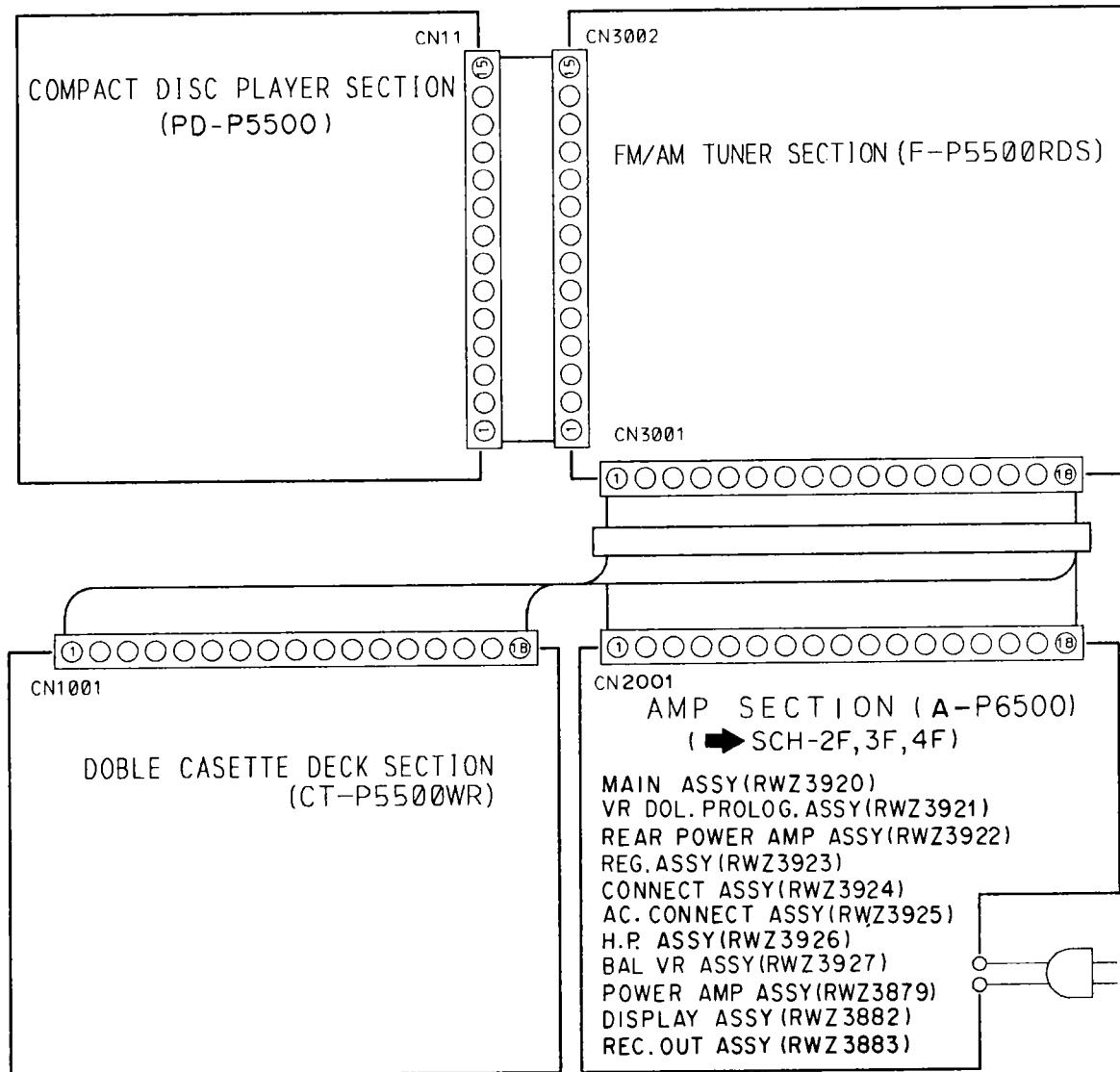
2. BLOCK DIAGRAM



3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

3.1 OVERALL SCHEMATIC DIAGRAM

SCH-1F



NOTE FOR SCHEMATIC DIAGRAMS (Type 1A)

- When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
- Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.
- RESISTORS:**
Unit: kΩ, MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
- CAPACITORS:**
Unit: pF or μF unless otherwise noted.
Ratings: capacitor (pF) / voltage (V) unless otherwise noted.
Rated voltage 50V except for electrolytic capacitors
- COILS:**
Unit: mH or μH unless otherwise noted.
- VOLTAGE AND CURRENT:**
 - \boxed{V} : Signal voltage at rated output.
 - \boxed{V} or $\sim V$: DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power.
 - $\diamond m\text{A}$ or $\sim m\text{A}$: DC current at no input signal unless otherwise noted.

- OTHERS:**
 - \otimes or \bullet : Adjusting point.
 - \triangleleft : Measurement point.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

- SCH-□ ON THE SCHEMATIC DIAGRAM:**
 - SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

- SWITCHES (Underline indicates switch position):**

A-P6500
 DISPLAY ASSY
 S2501 : + UP
 S2502 : - DOWN (DEMO)
 S2503 : CENTER MODE
 S2504 : DOLBY MODE
 S2505 : POWER STANDBY/ON
 S2506 : P. BASS
 S2507 : SFC MODE
 S2508 : TIMER REC
 S2509 : WAKE-UP

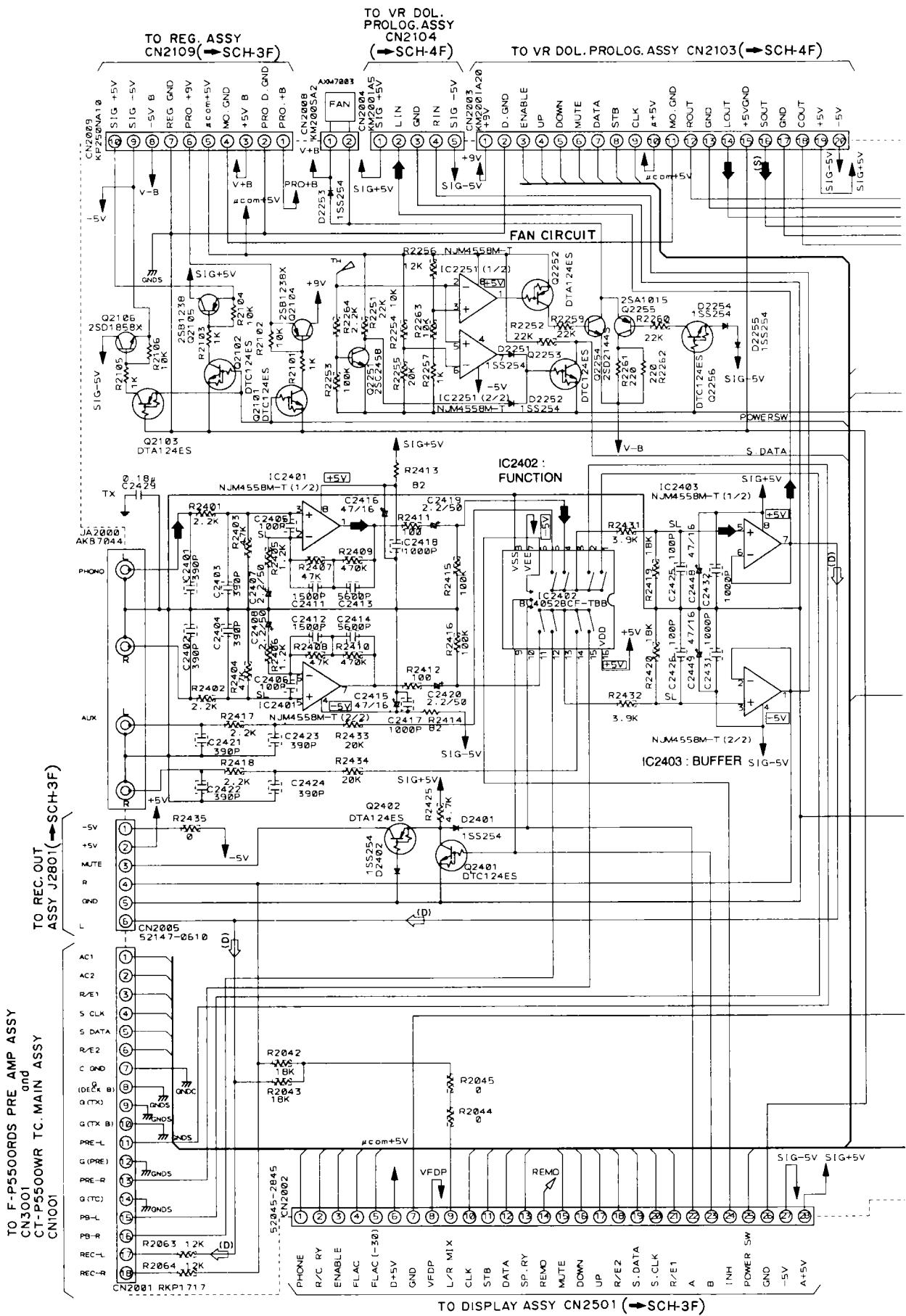
SCH-1F

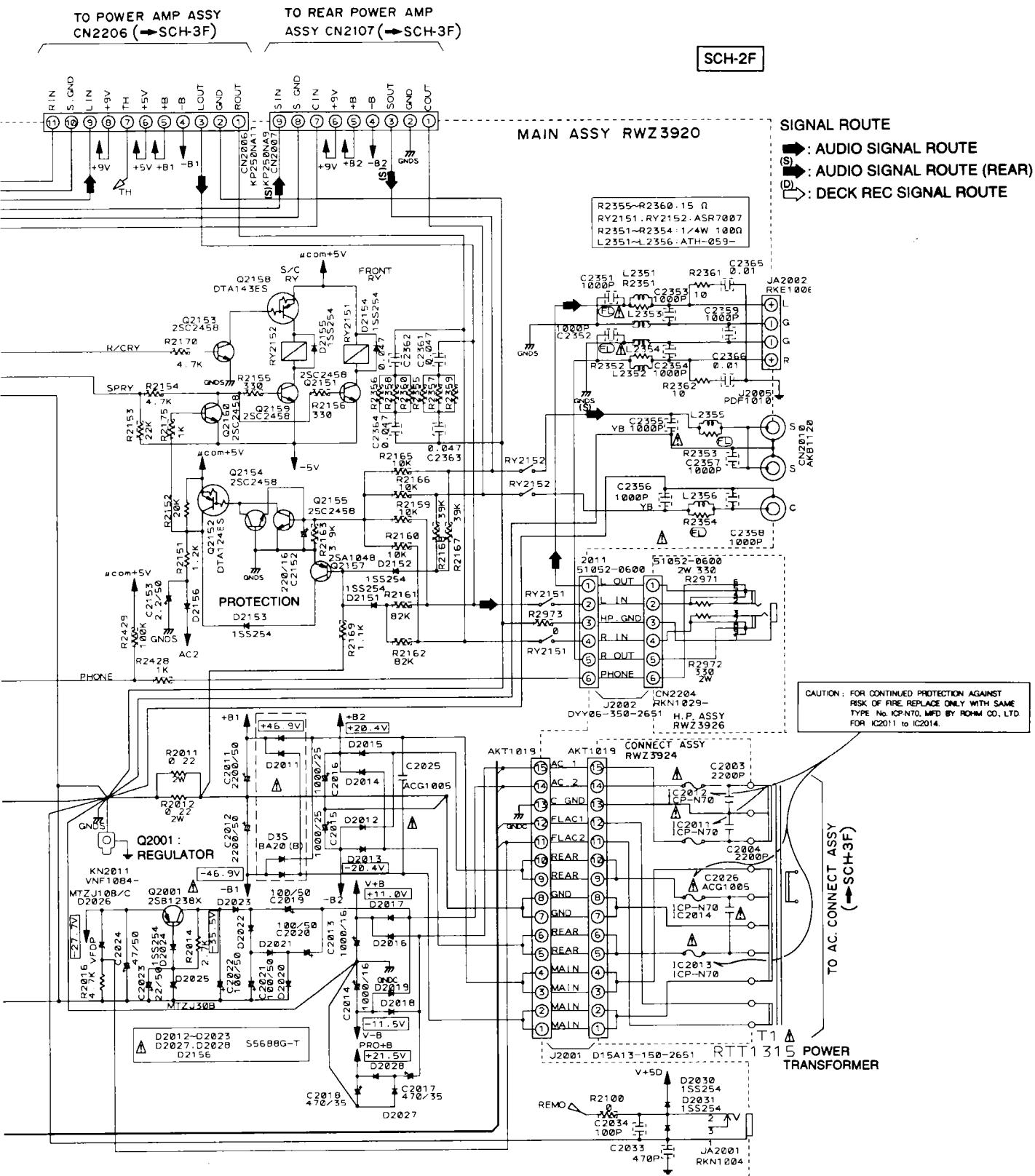
OVERALL
SCHEMATIC
DIAGRAMOVERALL
SCHEMATIC
DIAGRAM

SCH-1F

3.2 STEREO AMPLIFIER (A-P6500)

■ MAIN ASSY, H. P. ASSY and CONNECT ASSY





NOTE		CFTXA		CQMA		Un Marked Type		RESISTORS Ω		INDUCTORS μH	
CAPACITORS μF	TX	M	NL	CEANL	CEANP	1F	Seramic CKCYF	Un Marked Type 1/4W			
Y8 Ceramic CKCYB		NP	JA	CEJA	CKSQYB	1F	CEAS	1/4W Type 1/10W			
YX Ceramic CKCYX		YH	YB		CCSQYF	1F	CKSQYF				
SL Ceramic CCSYL											
TY CF-YA											

**MAIN ASSY,
H. P. ASSY
CONNECT ASSY**

SCH-2F

- This diagram is viewed from the mounted parts side.

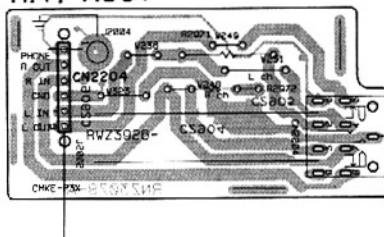
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

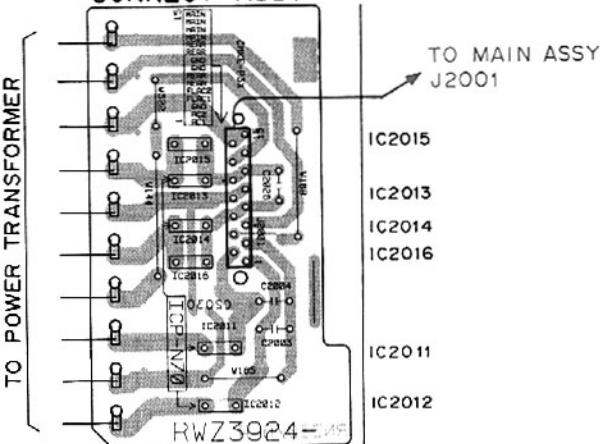
- The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

H. P. ASSY



TO MAIN ASSY
J2002

CONNECT ASSY



TO POWER TRANSFORMER

TO MAIN ASSY
J2001

IC2015

IC2013

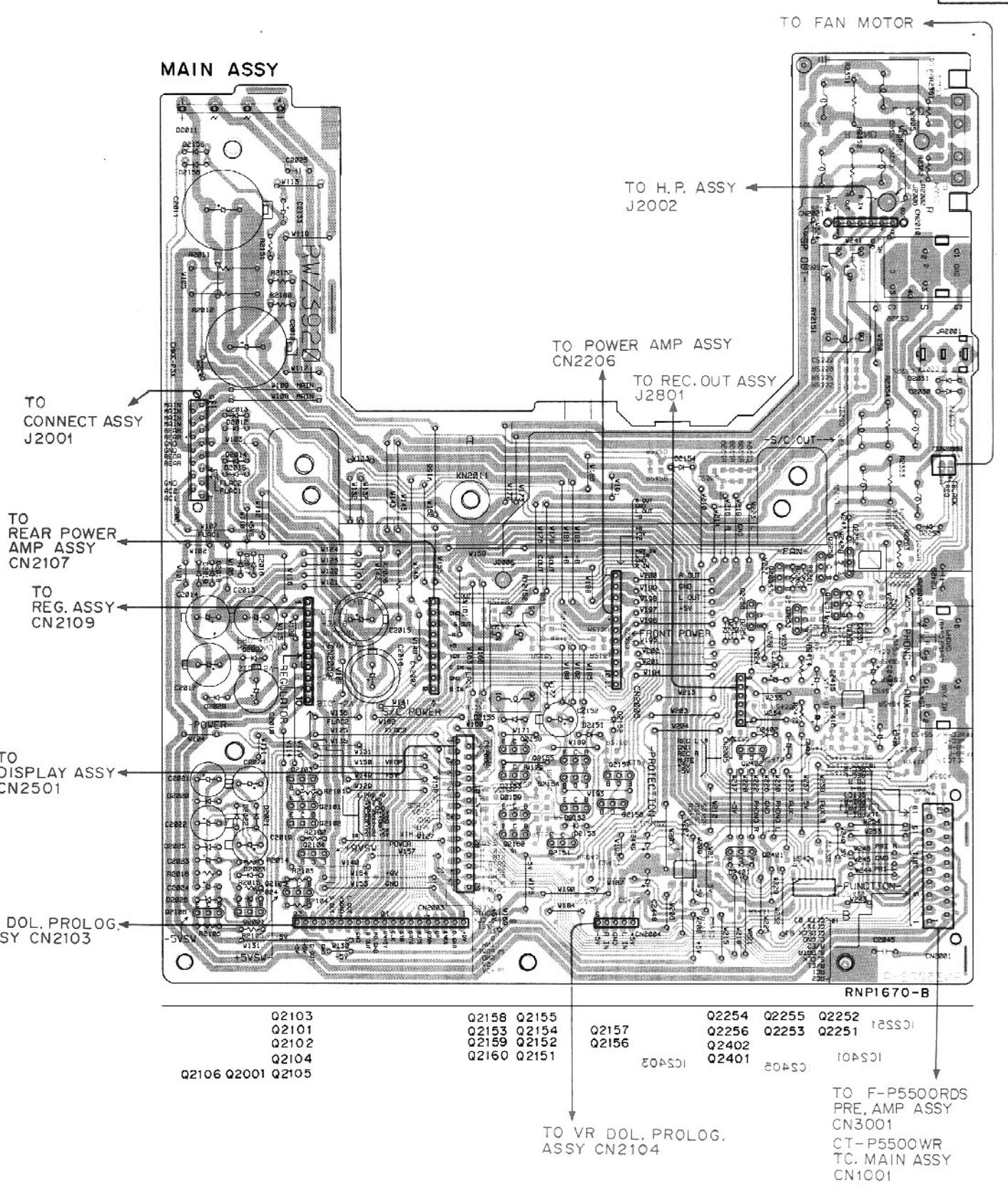
IC2014

IC2016

IC2011

IC2012

PCB-1F

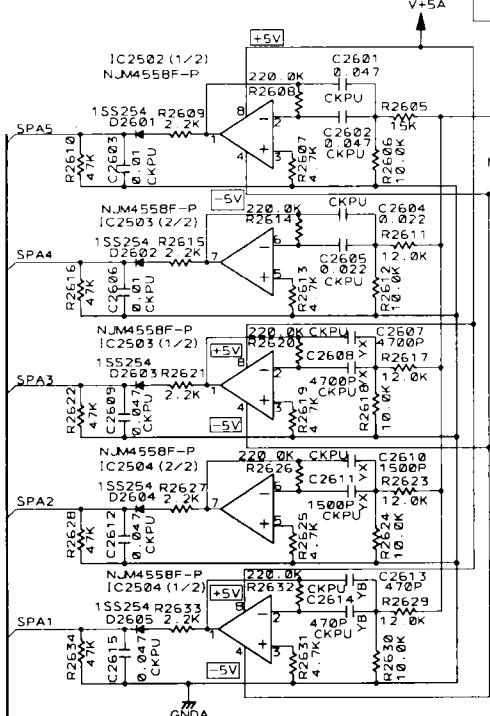


■ DISPLAY ASSY, POWER AMP ASSY, REC. OUT ASSY, REAR POWER AMP ASSY,
AC. CONNECT ASSY, and REG. ASSY

DISPLAY ASSY
RWZ3882

FL INDICATOR TUBE
V2501 RAW1 149-

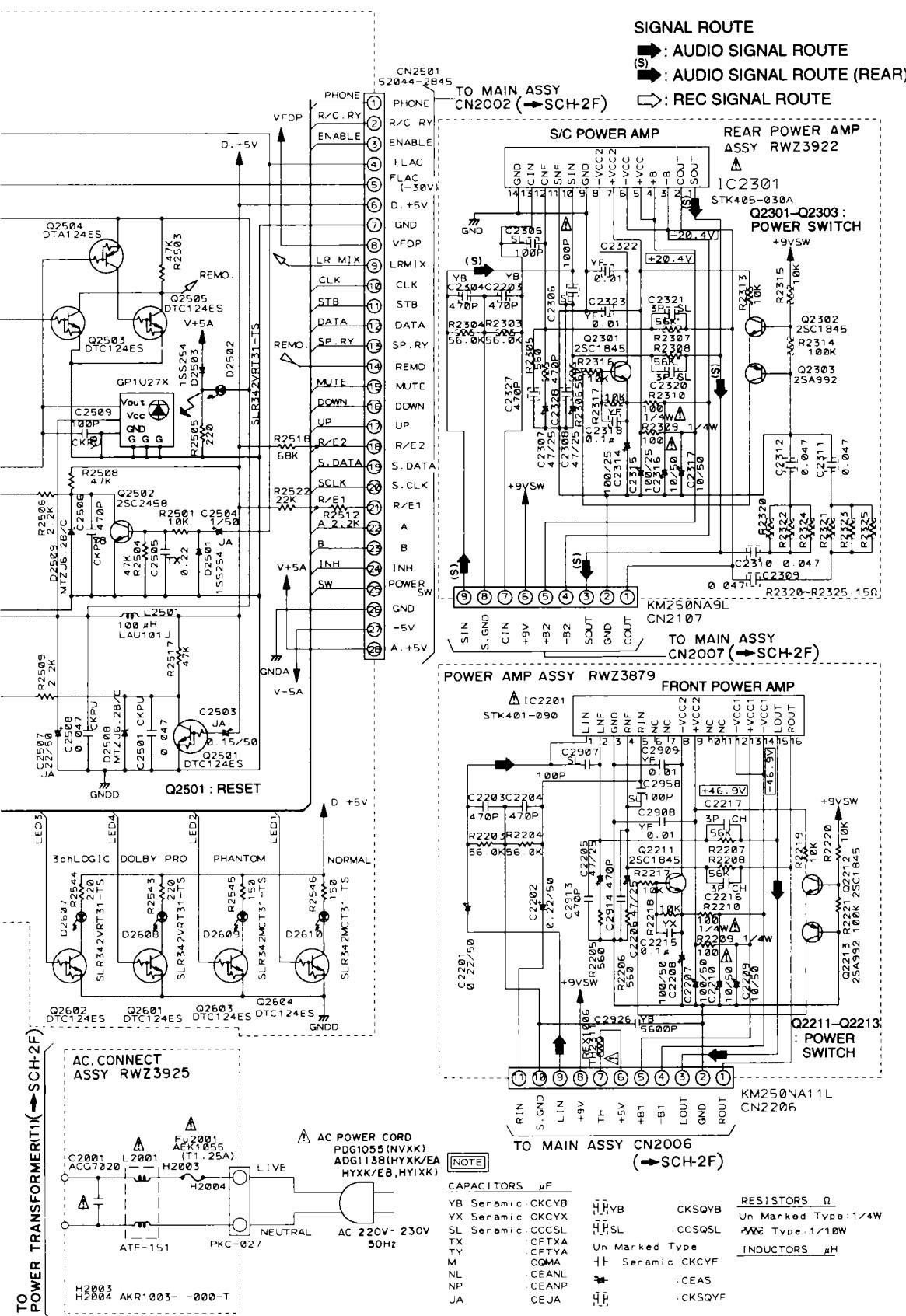
IC2502-IC2504 : FL BPF



SCH-3F

SIGNAL ROUTE

► : AUDIO SIGNAL ROUTE
 (S) : AUDIO SIGNAL ROUTE (REAR)
 □ : REC SIGNAL ROUTE



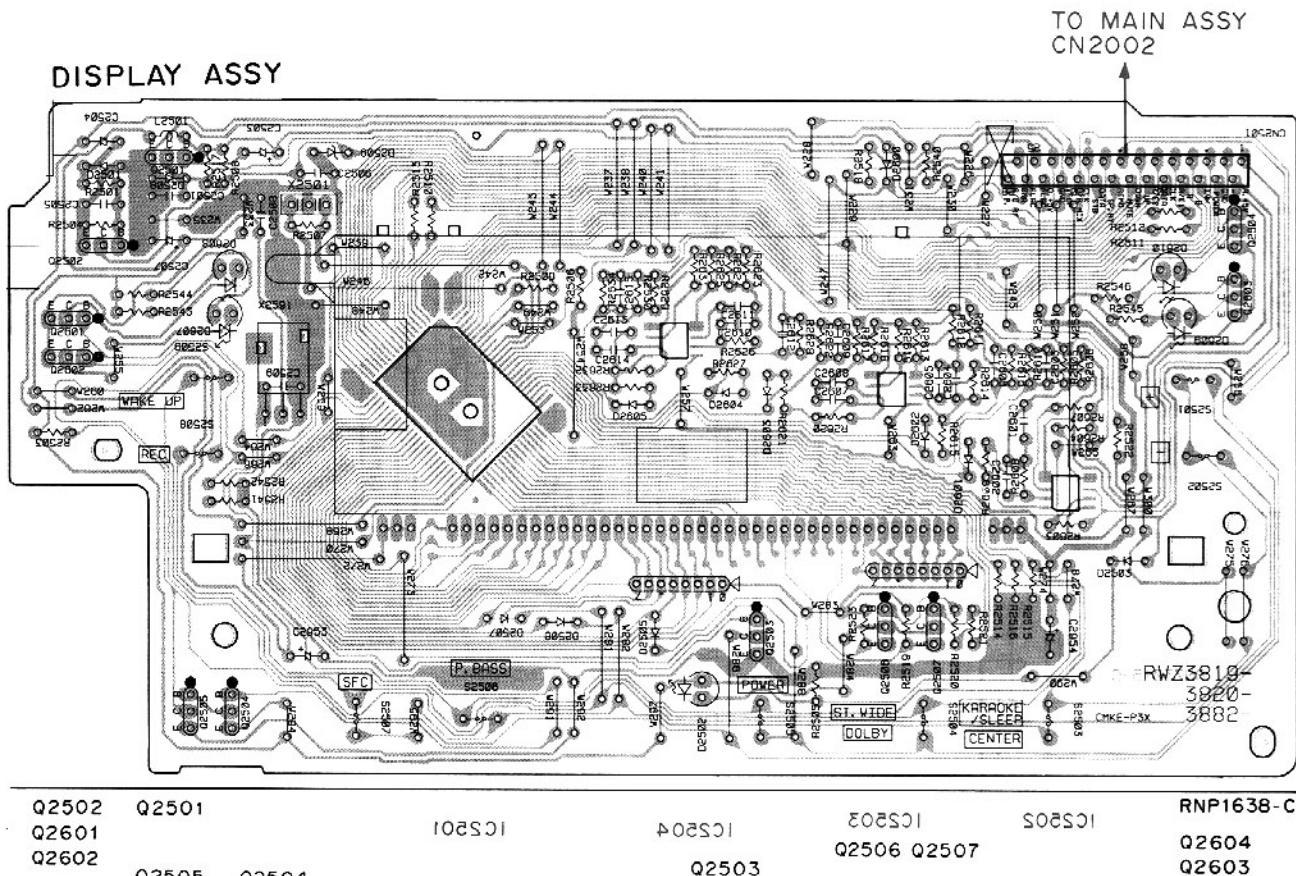
DISPLAY ASSY, POWER AMP ASSY,
 REC. OUT ASSY, REAR POWER AMP ASSY,
 AC. CONNECT ASSY, REG. ASSY

SCH-3F

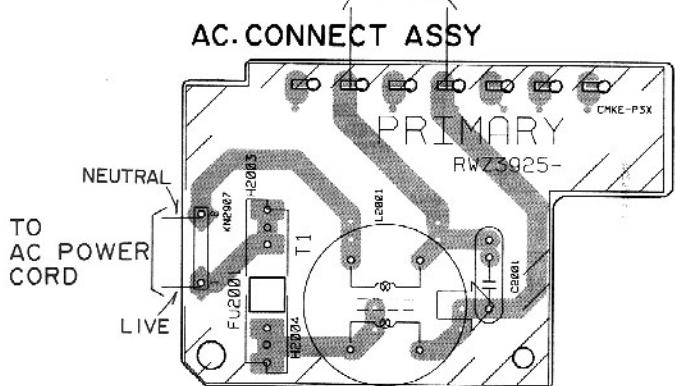
- This diagram is viewed from the mounted parts side.

- The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

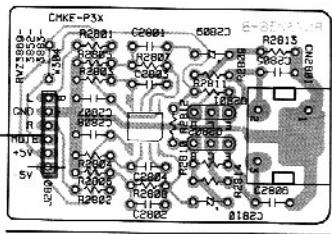
DISPLAY ASSY



TO
POWER TRANSFORMER

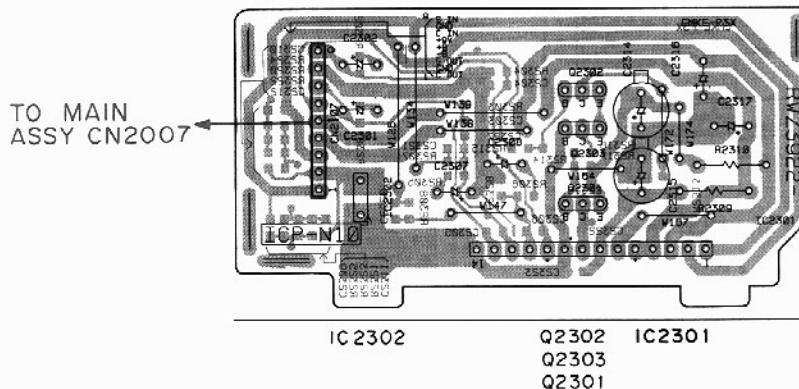


REC. OUT ASSY

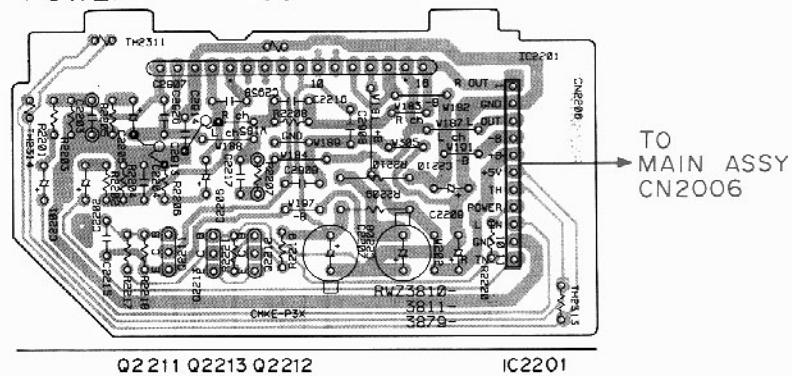


PCB-2F

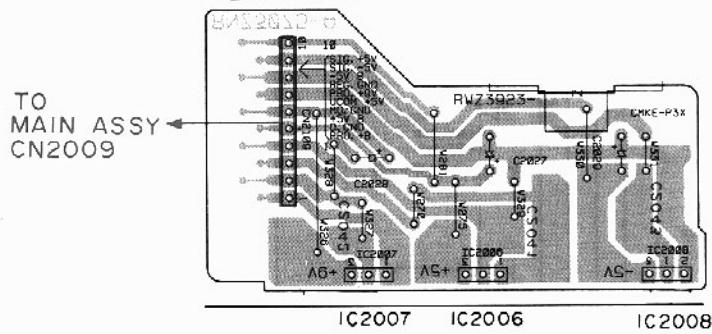
REAR POWER AMP ASSY



POWER AMP ASSY

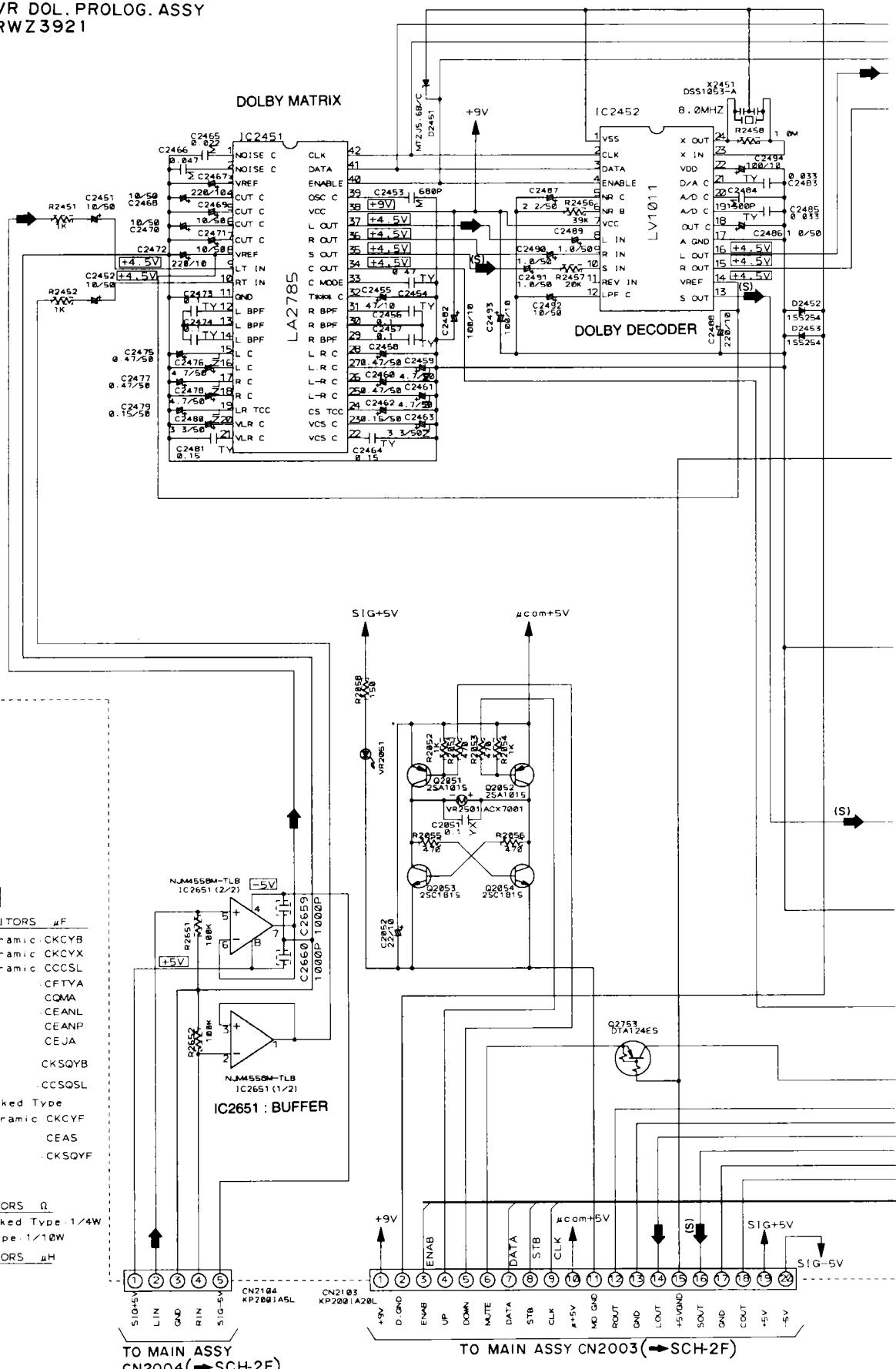


REG. ASSY



■ VR DOL. PROLOG ASSY and BAL VR ASSY

VR DOL. PROLOG. ASSY
RWZ3921



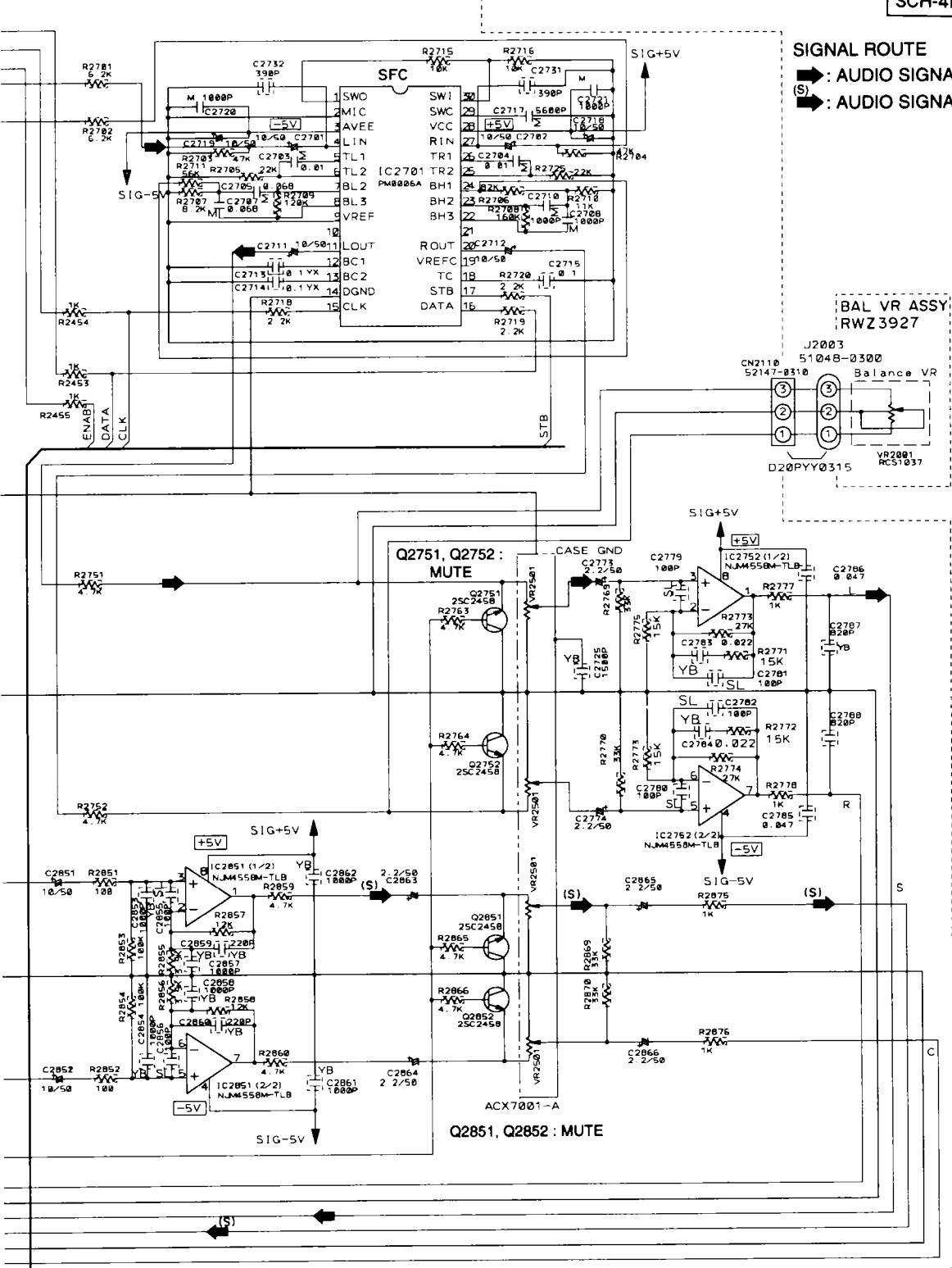
VR DOL. PROLOG ASSY,
BAL VR ASSY

SCH-4F

SCH-4F

SIGNAL ROUTE

→ : AUDIO SIGNAL ROUTE
 (S) → : AUDIO SIGNAL ROUTE (REAR)



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VR DOL. PROLOG ASSY,
BAL VR ASSY

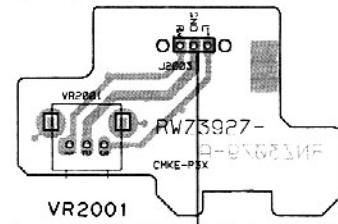
SCH-4F

- This diagram is viewed from the mounted parts side.

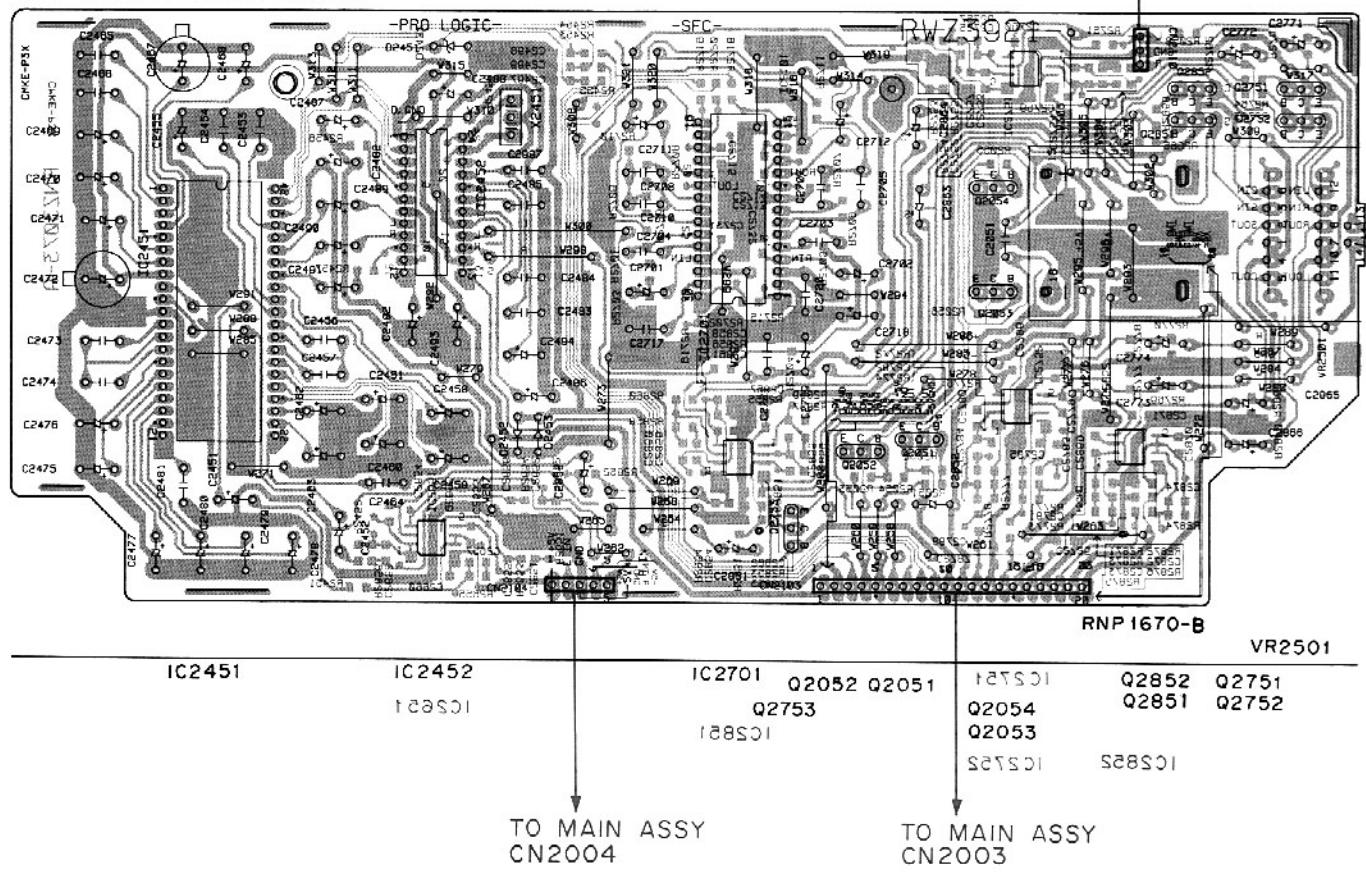
- The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

PCB-3F

BAL VR ASSY



VR DOL. PROLOG. ASSY



4. PCB PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47K ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $\rightarrow 56 \times 10^1 \rightarrow 561$ RD1/4PU 561 J
 47 k Ω $\rightarrow 47 \times 10^3 \rightarrow 473$ RD1/4PU 473 J
 0.5 Ω $\rightarrow 0R5$ RN2H 0R5 K
 1 Ω $\rightarrow 1R0$ RS1P 1R0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 k Ω $\rightarrow 562 \times 10^3 \rightarrow 5621$ RN1/4PC 5621 F

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.				
LIST OF PCB ASSEMBLIES											
NSP	DISPLAY ASSY		RWM1913			DISPLAY ASSY					
	POWER AMP ASSY		RWZ3879			SEMICONDUCTORS					
	DISPLAY ASSY		RWZ3882			IC2502-IC2504	NJM4558M				
NSP	REC. OUT ASSY		RWZ3883			IC2501	PDC032A				
NSP	AMP ASSY		RWM1926			Q2502, Q2506, Q2507	2SC2458				
	MAIN ASSY		RWZ3920			Q2504	DTA124ES				
	VR DOL. PROLOG. ASSY		RWZ3921			Q2501, Q2503, Q2505, Q2601-Q2604	DTC124ES				
	REAR POWER AMP ASSY		RWZ3922			D2501, D2503, D2505-D2507	1SS254				
	REG. ASSY		RWZ3923			D2601-D2605	1SS254				
	CONNECT ASSY		RWZ3924			D2508, D2509	MTZ16.2B				
NSP	AC. CONNECT ASSY		RWZ3925			D2609, D2610	SLR-342MCT31				
NSP	H. P. ASSY		RWZ3926			D2502, D2607, D2608	SLR-342VRT31				
	BAL VR ASSY		RWZ3927								
POWER AMP ASSY											
SEMICONDUCTORS											
Δ	IC2201		STK401-090								
	Q2213		2SA992								
	Q2211, Q2212		2SC1845								
CAPACITORS											
	C2216, C2217		CCCCH030C50								
	C2907, C2958		CCCSL101J50								
	C2209, C2210		CEAS100M50								
	C2207, C2208		CEAS101M50								
	C2205, C2206		CEAS470M25								
	C2201, C2202		CEASR22M50								
	C2215		CGCYX104M16								
	C2203, C2204, C2913, C2914		CKCYB471K50								
	C2926		CKCYB562K50								
	C2908, C2909		CKCYF103Z50								
RESISTORS											
Δ	R2209, R2210		RD1/4PMFL101J								
	Other Resistors		RD1/4PU□□□J								
OTHERS											
	CN2206 11P PLUG		KM250NA11L								
Δ	TH2311 THERMISTOR		REX1006								
RESISTORS											
	All Resistors					RD1/4PU□□□J					
OTHERS											
	CN2501	28P FFC CONNECTOR				52044-2845					
		REMOTE RECEIVER UNIT				GPIU27X					
	V2501	FL INDICATOR TUBE				RAW1149					
	X2501	CERAMIC RESONATOR (6.00MHz)	VSS1045								

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
		REC. OUT ASSY				C2417, C2418, C2431, C2432	CKSQYB102K50
		SEMICONDUCTORS				C2411, C2412	CKSQYB152K50
	IC2801		NJM4558M			C2401-C2404, C2421-C2424	CKSQYB391K50
	Q2801, Q2802		2SD2144S			C2033	CKSQYB471K50
		CAPACITORS				C2413, C2414	CKSQYB562K50
	C2809, C2810		CEAS100M50			C2361-C2364	CKSQYF473Z50
		RESISTORS			RESISTORS		
	All Resistors		RD1/4PU□□□J		R2351-R2354	RD1/4PMFL101J	
					R2361, R2362	RD1/4PU100J	
					R2101, R2103, R2105	RD1/4PU102J	
					R2102, R2104, R2106, R2263	RD1/4PU103J	
					R2151	RD1/4PU122J	
	CN2801 2P PIN JACK (REC. OUT)		AKB7010		R2152	RD1/4PU203J	
		MAIN ASSY			R2261, R2262	RD1/4PU221J	
		SEMICONDUCTORS			R2014	RD1/4PU272J	
	IC2402		BU4052BCF		R2016	RD1/4PU472J	
	IC2251, IC2401, IC2403		NJM4558M		R2413, R2414	RD1/4PU820J	
	Q2255		2SA1015				
	Q2157		2SA1048		R2011, R2012	RS2LMFR22J	
▲	Q2001		2SB1238X		Other Resistors	RS1/10S□□□J	
	Q2104, Q2105		2SB1238X				
	Q2151, Q2153-Q2155, Q2159, Q2160		2SC2458				
	Q2251		2SC2458				
	Q2106		2SD1858X				
	Q2254		2SD2144S				
	Q2103, Q2152, Q2252, Q2402		DTA124ES				
	Q2158		DTA143ES				
	Q2101, Q2102, Q2253, Q2256, Q2401		DTC124ES				
	D2024, D2030, D2031, D2151-D2155		1SS254				
	D2251-D2255, D2401, D2402		1SS254				
▲	D2011		D3SBA20(B)				
	D2026		MTZJ10B				
	D2025		MTZJ30B				
▲	D2012-D2023, D2027, D2028, D2156		S5688G				
		COILS AND FILTERS					
	L2351-L2356 (5.3μH)		ATH-059				
		SWITCHES AND RELAYS					
	RY2151, RY2152		ASR7007				
		CAPACITORS			SEMICONDUCTORS		
	C2025 (0.01μF/150V)		ACG1005		IC2451	LA2785	
	C2034, C2405, C2406, C2425, C2426		CCSQSL101J50		IC2452	LV1011	
	C2019-C2022		CEAS101M50		IC2651, IC2752, IC2851	NJM4558M	
	C2013, C2014		CEAS102M16		IC2701	PM0006A	
	C2015, C2016		CEAS102M25		Q2051, Q2052	2SA1015	
	C2023		CEAS220M50				
	C2152		CEAS221M16				
	C2011, C2012		CEAS222M50				
	C2153, C2407, C2408, C2419, C2420		CEAS2R2M50				
	C2415, C2416, C2448, C2449		CEAS470M16				
	C2024		CEAS470M50				
	C2017, C2018		CEAS471M35				
	C2429		CFTXA184J50				
	C2351-C2359, C2365, C2366		CKSQYB102K50				

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C2701, C2702, C2711, C2712	CEAS100M50			C2309-C2312		CKSQYF473Z50
	C2718, C2719, C2851, C2852	CEAS100M50					
	C2482, C2493, C2494	CEAS101M10					
	C2052	CEAS220M10					
	C2467, C2472, C2488	CEAS221M10					
	C2487, C2773, C2774, C2863-C2866	CEAS2R2M50					
	C2455	CEAS470M10					
	C2462, C2479	CEASR15M50					
	C2458, C2460, C2475, C2477	CEASR47M50					
	C2456, C2457, C2473, C2474	CFTYA104J50					
	C2464, C2481	CFTYA154J50					
	C2483, C2485	CFTYA333J50					
	C2454	CFTYA474J50					
	C2051	CGCYX104M16					
	C2659, C2660, C2853, C2854	CKSQYB102K50					
	C2857, C2858, C2861, C2862	CKSQYB102K50					
	C2725	CKSQYB152K50					
	C2859, C2860	CKSQYB221K50					
	C2783, C2784	CKSQYB223K50					
	C2731, C2732	CKSQYB391K50					
	C2787, C2788	CKSQYB821K50					
	C2713-C2715	CKSQYF104Z25					
	C2785, C2786	CKSQYF473Z25					
	C2708, C2710, C2720, C2721	CQMA102J50					
	C2703, C2704	CQMA103J50					
	C2484	CQMA152J50					
	C2465	CQMA223J50					
	C2466	CQMA473J50					
	C2717	CQMA562J50					
	C2453	CQMA681J50					
	C2705, C2707	CQMA683J50					
RESISTORS				COILS AND FILTERS			
	VR2501 (100 kΩ)	ACX7001			L2001		ATF-151
	Other Resistors	RS1/10S□□□J					
OTHERS				CAPACITORS			
	CN2110	3P JUMPER CONNECTOR	52147-0310				
	X2451	CERAMIC RESONATOR (8.00MHz)	DSS1053				
	CN2103	20P SOCKET	KP2001A20L				
	CN2104	5P SOCKET	KP2001A5L				
		PCB BINDER	VEF1008				
REAR POWER AMP ASSY				RESISTORS			
					R2971, R2972		RS2LMF331J
SEMICONDUCTORS				OTHERS			
▲	IC2301						
	Q2303	STK405-030A					
	Q2301, Q2302	2SA992					
		2SC1845					
CAPACITORS				RESISTORS			
	C2320, C2321	CCSQSL030C50					
	C2305, C2306	CCSQSL101J50					
	C2316, C2317	CEAS100M50					
	C2314, C2315	CEAS101M25					
	C2307, C2308	CEAS470M25					
	C2303, C2304, C2327, C2328	CKSQYB471K50					
	C2322, C2323	CKSQYF103Z50					
	C2318	CKSQYF104Z50					
BAL VR ASSY				OTHERS			
RESISTORS				3P CABLE HOLDER			
	VR2001 (250 kΩ)						
OTHERS				6P CABLE HOLDER			
	CN2204	MINI JACK					
OTHERS				51052-0600			
OTHERS				RKN1029			
3P CABLE HOLDER				51048-0300			

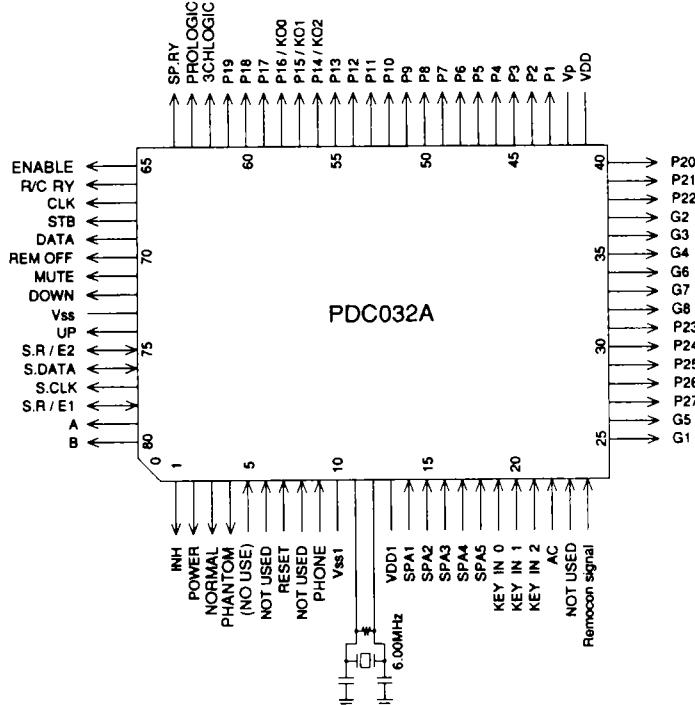
5. IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

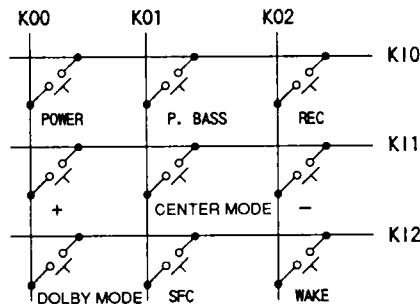
■ PDC032A (DISPLAY ASSY: IC2501)

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



● Pin Function

No.	Pin Name	Pin Function	I/O	Description	Logic
1	P17	INH	O	BU4052 function INHIBIT output	H
2	P30	POWER	O	Power control output	H
3	P31	NORMAL	O	PRO-LOGIC NORMAL mode LED display output	H
4	P32	PHANTOM	O	PRO-LOGIC PHANTOM mode LED display output	H
5	P33	NOT USED	I	Not used (Fix to H or L)	
6	P70	NOT USED	I	Not used (internal pull-up)	
7	RES	RESET	I	Reset input	
8	P74	NOT USED	I	Not used (Connected to +5V.)	
9	P75	PHONE	I	Headphone detector terminal	
10	VSS1	VSS	—	Connected to GND.	
11	CF1	—	—	Main System clock (6MHz) Connected to ceramic resonator.	
12	CF2	—	—		
13	VDD1	VDD	—	Connected to +5V.	
14	AN0	SPA1	I	Spectrum analyzer input (analog) 10 kHz	
15	AN1	SPA2	I	Spectrum analyzer input (analog) 3.3 kHz	

No.	Pin Name	Pin Function	I/O	Description	Logic
16	AN2	SPA3	I	Spectrum analizer input (analog) 1 kHz	
17	AN3	SPA4	I	Spectrum analizer input (analog) 330 Hz	
18	AN4	SPA5	I	Spectrum analizer input (analog) 100 Hz	
19 21	P85 P87	K10 K12	I	Key scan · Key return input 0 Key scan · Key return input 2	
22	INT1	AC	I	AC pulse input	
23	P72	NOT USED	I	Not used (internal pull-up)	
24	INT3	RMC	I	Remote control signal input	
25	S0	G1	O	FL grid output G1	
26	S1	G5	O	FL grid output G5	
27 31	S2 S6	P27 P23	O	FL segment output P27 FL segment output P23	
32 34	S7 S9	G8 G6	O	FL grid output G8 FL grid output G6	
35 37	S10 S12	G4 G2	O	FL grid output G4 FL grid output G2	
38 40	S13 S15	P22 P20	O	FL segment output P22 FL segment output P20	
41	VDD2	VDD	—	Connected to +5V.	
42	VP	VFDP	—	Connected to power supply (-30V) for FL.	
43 55	S16 S28	P1 P13	O	FL segment output P1 FL segment output P13	
56 58	S29 S31	P14/KO2 P16/KO0	O	FL segment output P14 · Key scan output 2 FL segment output P16 · Key scan output 0	
59 61	S32 S34	P17 P19	O	FL segment output P17 FL segment output P19	
62	PE3	3CHLOGIC	O	DOLBY 3CH LOGIC mode LED display output	H
63	PE4	PROLOGIC	O	DOLBY PRO LOGIC mode LED display output	H
64	PE5	SP.RY	O	Front speaker relay output	H
65	P00	ENABLE	O	LA2785/LV1010 ENABLE output	H
66	P01	R/C RY	O	Rear and center speaker relay output	H
67	P02	CLK	O	PM0006A/LA2785/LV1010 clock output	

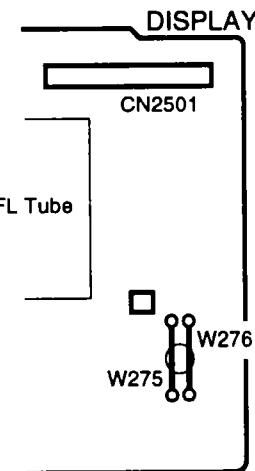
No.	Pin Name	Pin Function	I/O	Description	Logic
68	P03	STB	O	PM0006A strobe output	
69	P04	DATA	O	PM0006A/LA2785/LV1010 data output	
70	P05	REMO	O	Remote control out (MD/CD2) control output	L
71	P06	MUTE	O	Mute output	H
72	P07	DOWN	O	Volume Motor control output (DOWN)	L
73	VSS2	VSS	—	Connected to GND.	
74	P10	UP	O	Volume Motor control output (UP)	L
75	P11	S.R/E2	I/O	Communication request/enable input/output 2 for system bus communication.	
76	P12	S.DATA	I/O	Data input/output for system bus communication.	
77	P13	S.CLK	O	Clock output for system bus communication.	
78	P14	S.R/E1	I/O	Communication request/enable input/output 1 for system bus communication.	
79	P15	A	O	BU4052 function switch A output	
80	P16	B	O	BU4052 function switch B output	

● Use of Service Mode

This is used to check external input (MD/CD2, PHONO) for the amplifier by itself.

How to enter the service mode

1. With the plug pulled from the power outlet, short-circuit (W275 and W276) the service terminal on the DISPLAY assy.



2. Maintain the condition of "1" and supply AC power. The power will be switched on automatically and the function will become MD/CD2. The present function status will be displayed in the 7-segment time column of the front FL.
3. After power ON, remove the terminal short-circuit bridge. (Otherwise key operation can not be executed.)
4. The function status can be changed by body key operation. The relation between key operation and FL display is shown in Table 1.

KEY	Mode	Indication	FUNC A	FUNC B
[WAKE UP]	MD/CD2	Au	H	L
[TIMER REC]	PHONO	PH	H	H
[+]	DECK	dE	L	L
[-]	CD(TX)	Cd	L	H

Table 1 Front Panel Key Operation and Function Mode

The other front keys [SFC], [P. BASS], [DOLBY MODE] and [CENTER MODE] operate normally.

Service mode cancellation

Switch off the power once and then switch is on again normally. The function set in service mode remains memorized until the plug is pulled out of the power outlet.

Notes

1. Always use this mode only for the amplifier by itself. (System operation does not operate normally.)
2. After cancellation of service mode according to the above method, the FL indication becomes DISPLAY OFF mode (the mode where the spectrum analyzer and the level meter part are not displayed). For display of spectrum analyzer and level meter, push the [+] key of the unit in POWER-OFF condition to switch the DISPLAY mode.

**■ STK405-030A (REAR POWER AMP ASSY : IC2301)
Audio Power IC****● Block Diagram**